



Datasheet RS PRO Piezo Audio Indicator



RS Stock : 181-2714



A. SCOPE

This specification applies piezo audio indicator, 1812692

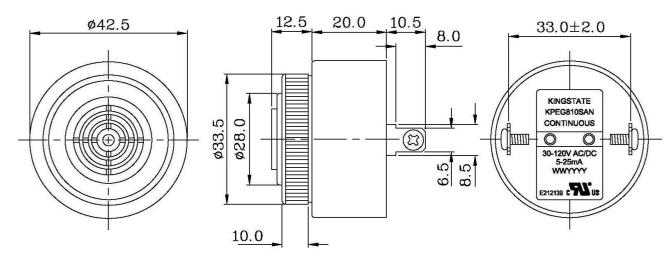
B. SPECIFICATION

No.	ltem	Unit	Specification		Cond	dition
1	Resonant frequency	KHz	2.8 ± 0.5			
2	Operating` Volt. range	AC/DC	30 ~ 120			
3	Current consumption	mA	MAX. 5	MAX. 25	at 30VAC/DC	at 120VAC/DC
Ľ	carrone consumption		MAX. 20		at 110VDC	
4	Sound pressure level	dB	MIN. 68	MIN. 80	at 60cm,30VAC/DC	at 60cm,120VAC/DC
			MIN. 76		at 60cm/110VDC	
5	Rated Voltage	VDC	110			
6	Tone		Contir	nuous		
7	Operating temp.	°C	-30 ~	+85		
8	Storage temp.	°C	-40 ~	+85		
9	Dimension	mm	arphi 42.5 x	x H32.5	See appeara	ance drawing
10	Weight (MAX)	gram	40	.0		
11	Material		NYLON UL-94	V-0 (BLACK)		
12	Terminal		Pin (Platin	type ng Sn)	See appeara	ance drawing
13	Environmental Protection Regulation		•	HS		
14	Storage life	month	6	3		ation at room temp. lumidity40%



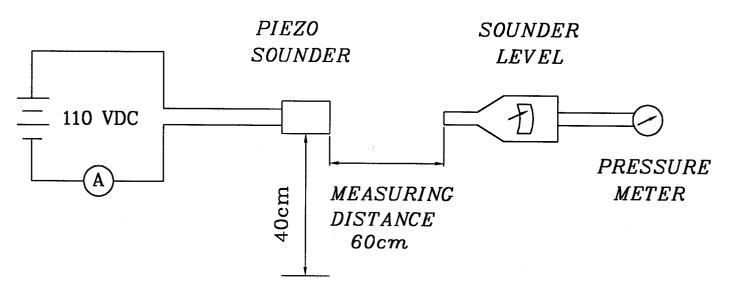


C. APPEARANCE DRAWING



Tol : ± 0.5 Unit: mm D. MEASURING METHOD

S.P.L. Measuring Circuit



Mic : RION S.P.L meter UC30 or equivalent





E. MECHANICAL CHARACTERISTICS

No.	ltem	Test Condition	Evaluation standard			
1	Solderability	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+270\pm5^{\circ}$ C for 3 ± 1 seconds.	90% min. lead terminals shall be wet with solder. (Except the edge of terminal)			
2	Soldering Heat Resistance	Lead terminal are immersed up to 1.5mm from sounder's body in soilder bath of $+300\pm5^{\circ}$ C for 3 ± 0.5 seconds or $+260\pm5^{\circ}$ C for 10 ± 1 seconds.	No interference in operation			
3	Terminal Mechanical Strength	The force 10 seconds of 9.8N (1.0kg) is applied to each terminal in axial direction.	No damage and cutting off			
4	Vibration	Buzzer shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 55hz band of vibration frequency to each of 3 per-pendicular directions for 2 hours.	The value of oscillation frequency/ current consumption should be in ±10% compared with			
5	Drop test	The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes (X.Y.Z). (a total of 9 times).	initial ones .The SPL should be in ±10dB compared with initial one.			

F. ENVIRONMENT TEST

No.	ltem	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +85 $^\circ\!\mathrm{C}$ for 240 hours	
2	Low temp. test	After being placed in a chamber at –40 $^\circ \! \mathbb{C}$ for 240 hours	
3	Humidity test	After being placed in a chamber at +40 $^\circ\!C$ and 90±5% relative humidity for 240 hours	
4	Temp. cycle test	+85°C +25°C -40°C	Being placed for 4 hours at $+25^{\circ}$ C, buzzer shall be measured. The value of oscillation frequency/ current consumption should be in ±10% compared with initial ones .The SPL should be in ±10dB compared with initial one.





G. RELIABILITY TEST

No.	ltem	Test condition	Evaluation
1	Operating life test	 Continuous life test 250 hours continuous operation at +85°C with rated voltage applied. Intermittent life test A duty cycle of 1 minute on, 5 minutes off, a minimum of 10000 times at room temp.(+25±2°C) and rated voltage applied 	Being placed for 4 hours at +25°C, buzzer shall be measured. The value of oscillation frequency/ current consumption should be in ±10% compared with initial ones .The SPL should be in ±10dB compared with initial one.

TEST CONDITION.

Standard Test Condition:a) Temperature : $+5 \sim +35^{\circ}$ b) Humidity : $45-85^{\circ}$ c) Pressure : 860-1060mbarJudgment Test Condition:a) Temperature : $+25 \pm 2^{\circ}$ b) Humidity : $60-70^{\circ}$ c) Pressure : 860-1060mbar



